Development of Nuclear Reaction Data Retrieval System on IntelligentPad by Japan Charged Particle Reaction Data Group

Shigeyoshi Aoyama[1], Yosihide Ohbayashi[2], Koji Arai[1], Kiyoshi Kato[2], Masaki Chiba[3]

[1] *Kitami Institute of Technology*
[2] *Hokkaido University*
[3] *Sapporo Gakuin University*

A newly designed retrieval system of nuclear reaction data [1] is developed on the IntelligentPad architecture. for NRDF (Nuclear Reaction Data File)[2] and EXFOR (EXchange-FORmat) compilation, is applied as an application example. We designed the network-based (client-server) retrieval system. The server system is constructed on a UNIX workstation with a relational database, and the client system is constructed on Microsoft Windows PC using an IntelligentPad software package. Our system is called CONTIP, which is an abbreviation of "Creative, Cooperative and Cultural Objects for Nuclear data and Tools". We will develop CONTIP to realize effective utilization of nuclear reaction data: I. "Re-production, Re-edit, Re-use", II. "Circulation, Coordination and Evolution", III. "Knowledge discovery".

[1] Yoshihide Ohbayshi, Shigeyoshi Aoyama, Hiroshi Masui, Kisyoshi Kato, Masaki Chiba, "Development of Charged Particle Nuclear Reaction Data Retrieval System on IntelligentPad:CONTIP", Journal of Information Science 26(2000), pp 29-37.

[2] Hiroshi Masui, Yoshihide Ohbayshi, Shigeyoshi Aoyama, Akira Ohnishi, Kisyoshi Kato, Masaki Chiba,"Exploratory Study of Nuclear Reaction Data Utility Framework of Japan Charged Particle Reaction Data Group", Journal of Nuclear Science and Technology Supplement2(2002), pp 1468-1471.

Email: aoyama@mail.kitami-it.ac.jp